

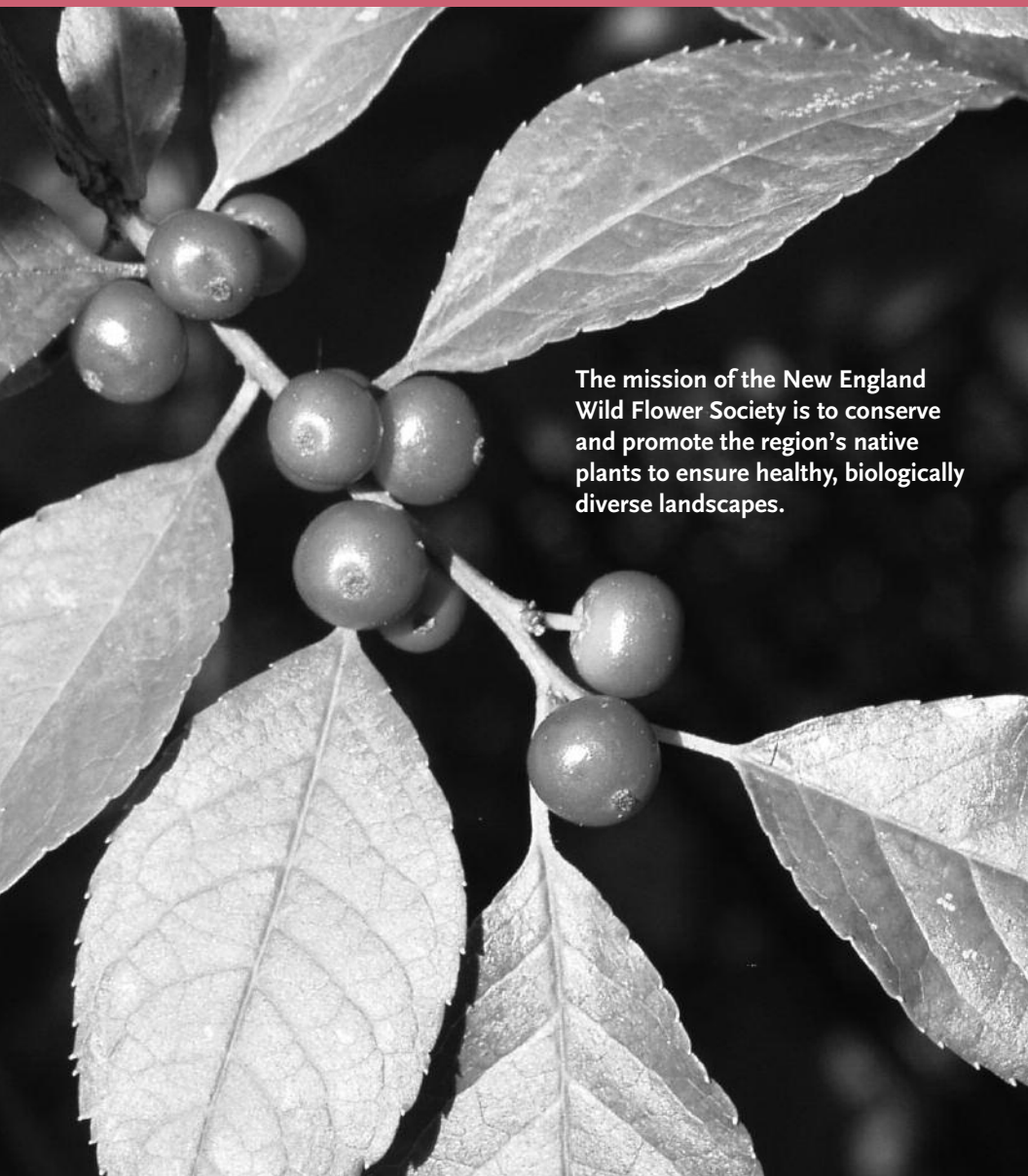
FALL/WINTER 2011

NEW ENGLAND
WILD
FLOWER
SOCIETY



learn+grow

SEPTEMBER 2011 • VOLUME 4, NUMBER 2 THE COURSE CATALOG OF NEW ENGLAND WILD FLOWER SOCIETY



The mission of the New England Wild Flower Society is to conserve and promote the region's native plants to ensure healthy, biologically diverse landscapes.

regional index

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ON THE COVER

Winterberry (*Ilex verticillata*),
Lisa Mattei



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Volume 4, Number 2, Fall/Winter 2011

Learn + Grow is published twice a year by New England Wild Flower Society. Subscriptions are included in membership dues, which start at \$50/year for individuals. See inside back cover for membership information.

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Printed on recycled paper.
Design: Rachel Wolff Lander
Editor: Steven Ziglar

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This publication was made possible through the generosity of Jackie and Tom Stone, and members and friends of New England Wild Flower Society.

F R E E L E C T U R E

Annual Native Plant Lecture and Certificate Awards



HOW LOCAL IS NATIVE?

Join Debbi Edelstein, Executive Director, as she presents the Society's redefinition of "native" and how it relates to our gardens and the eco-regions of New England. Learn about the Society's plans to conserve and promote the region's native plants to ensure healthy, biologically diverse landscapes.

After the talk, certificates will be awarded to our new graduates in our Certificate Program in Native Plant Studies and refreshments will follow.

Sunday, October 2, 1:30-3:30 p.m.

Garden in the Woods, Framingham, MA

Lecturer: Debbi Edelstein, Executive Director,
New England Wild Flower Society

Course Code: LEC4009

Call Lana Reed to preregister, 508-877-7630 x3303

certificate program

Native Plant Studies

New England Wild Flower Society's Certificate in Native Plant Studies offers dedicated students a comprehensive series of programs in the identification, cultivation, ecology, and conservation of native New England plants. Participants proceed through the program at their own pace.

Students gain a greater appreciation and understanding of native plant habitats, common and rare species, conservation issues, and uses of native plants in horticulture and design. Certificate students engage in ongoing public and private efforts to preserve and restore native New England flora.

We offer four opportunities for concentrated study:

1. Certificate in Field Botany
2. Advanced Certificate in Field Botany
3. Certificate in Native Plant Horticulture and Design
4. Advanced Certificate in Native Plant Horticulture and Design

Each certificate requires completion of core courses, elective courses, field trips, and community service.

See www.newenglandwild.org/learn/certificate for details.

ENROLL NOW!

Complete the certificate registration form on page 28 of this catalog or online at www.newenglandwild.org. Direct questions to Registrar at 508-877-7630, ext. 3303, or lreed@newenglandwild.org. There is a one-time certificate enrollment fee of \$30.

Classes in this catalog are open to all adults, regardless of certificate enrollment. Join the Society to receive discounts. See inside back cover.

CERTIFICATE CREDIT DESIGNATIONS

FB=Field Botany

Adv. FB = Advanced Field Botany

HD=Native Plant Horticulture & Design

Adv. HD=Advanced Native Plant Horticulture & Design

Some courses satisfy more than one requirement for example Elective-FB; Core-Adv. FB can be used as an elective for a certificate in Field Botany or as a Core requirement for a certificate in Advanced Field Botany.

CERTIFICATE ORIENTATION

Join Education Director Bonnie Drexler and certificate program graduates for an illustrated talk that includes some of the fascinating stories that native plants have to tell, a look at the Society's efforts to conserve native flora, and why it is important to "learn the wildflowers." Hear about the structure of the Society's Certificate in Native Plant Studies program and how it can guide your learning. Everyone is welcome at this free presentation. Preregistration is requested, but not required.

Wednesday, September 21, 7-8:30 p.m.

Garden in the Woods, Framingham, MA

Course Code: CER8000

Fee: Free program

Limit: 20

horticulture & gardening



DESIGN A NATIVE MIXED BORDER GARDEN IN THE FALL

Your border garden can have four seasons of beauty! Take advantage of ideal fall planting conditions to establish borders filled with native perennials, shrubs, vines, and small trees. Horticulturist and landscape designer Laura Eisener discusses how to artfully combine a variety of beautiful plants, and illustrates basic design principles you can apply to planning and planting a mixed border of any size and shape. Fall bargains abound in nurseries, and this is an ideal opportunity to refresh or redesign existing border areas in your garden.

Instructor: Laura Eisener, landscape designer

Fee: \$26 (Member) / \$32 (Non-member)

Limit: 20

Credits: Elective-HD/Adv. HD

Choose one of two sections:

Tuesday, September 27, 7-9 p.m.

Garden in the Woods, Framingham, MA

Course Code: HOR1517

Cosponsors: MA Audubon Drumlin Farm, The Landscape Institute

Tuesday, October 4, 7-9 p.m.

Beverly, MA

Course Code: HOR1514

Cosponsor: The Trustees of Reservations, Long Hill

HORTICULTURAL TECHNIQUES

Good horticultural practices form the backbone of any successful garden. Understanding how to apply the basics of plant care is the essential first step to becoming a horticulturist. In this 3-session course we discuss how to properly select and plant native plant material and demonstrate choosing the right plant for the right place. Students practice proper techniques in transplanting woody and herbaceous plant material. Correct methods of preparing soil, mulching and watering are explained. Maintaining your plants correctly and using proper pruning techniques are addressed and demonstrated. We wrap up with winterizing gardens and then discuss how to prepare for the coming spring.

Fridays, October 21, 28,

November 4, 10 a.m.-3 p.m.

Garden in the Woods, Framingham, MA

Course Code: HOR3600

Instructors: Horticulture Staff, New England Wild Flower Society

Fee: \$212 (Member) / \$254 (Nonmember)

Limit: 16

Credit: Core-HD; Elective-all certificates

horticulture & gardening

THE GREEN GARDEN

Join author and garden coach Ellen Sousa to learn how a well-designed and thoughtfully planted garden can provide food, shelter, and housing for birds, pollinators and other at-risk wildlife species. Hear about the best bird and pollinator-friendly plants for a variety of garden conditions, and discover how native plants and wildlife work together to maintain stable, functioning ecosystems that support us all. Copies of Ellen's new book, *The Green Garden: A New England Guide to Planning, Planting and Maintaining an Eco-friendly Habitat Garden* will be available at a discount to participants.

Tuesday, November 8, 1:00-2:30 p.m.

Garden in the Woods, Framingham, MA

Course Code: LEC4027

Instructor: Ellen Sousa, landscape designer, author

Fee: \$15 (Member) / \$18 (Nonmember)

WINTER GARDENING: CHALLENGES AND REWARDS

New England winters can be cold, long, and gray but our landscapes don't have to be. Our gardens can still provide cheer even on



the dreariest winter days. Get tips for creating a landscape with year-round appeal as well as ideas to help your plants survive seasonal challenges such as damage from ice, snow, and voracious mammals. Learn about plants that provide color, texture, shelter, and food sources throughout the winter with a few surprises along the way.

Thursday, November 10, 1-4 p.m.

Garden in the Woods, Framingham, MA

Course Code: HOR1603

Instructor: Nate McCullin, Horticulturist, New England Wild Flower Society

Fee: \$36 (Member) / \$43 (Nonmember)

Limit: 16 **Credit:** Elective-HD/ Adv.HD

Cosponsor: Arnold Arboretum of Harvard University

GARDENING FOR SUSTAINABILITY

Ecological gardening with native plants uses our treasured native flora and applies the most innovative sustainable practices to create a new norm for the American garden. Such practices preserve floral and faunal diversity, both above and below the soil line, and do not significantly alter the soil, water, air or organisms which exist in or come in contact with our landscape. Learn about creating and maintaining healthy soil with compost and compost tea. Consider site conditions, and how to identify the "right plant for the right place." Discover how to combine sustainable practices with the goal of achieving a closed system.

Saturday, November 12, 1-3 p.m.

Berkshire Botanical Garden, Stockbridge, MA

Course Code: HOR3701

Instructor: Scott LaFleur, Botanic Garden Director, New England Wild Flower Society

Fee: \$35

Credit: Elective-HD/ Adv.HD

Cosponsor: Berkshire Botanical Garden

horticulture & gardening

PRUNING FUNDAMENTALS

Proper pruning improves both the health and structure of woody plants and allows the gardener to influence the aesthetic qualities of trees and shrubs. This workshop covers pruning methods for established plantings in the home landscape. Learn how to select basic tools, make a proper cut, determine which branches to cut, and the correct time to prune for different species. Bring hand pruners to try various cuts.

Saturday, November 12, 9:30 a.m.-12:30 p.m.

Garden in the Woods, Framingham, MA

Instructor: Dave Ropes, Tree Specialists, Inc.

Course Code: HOR3120

Fee: \$36 (Member) / \$43 (Nonmember)

Limit: 16 **Credit:** Electives-all certificates

WILDFLOWER PROPAGATION II

Learn tips for raising wildflowers from seed, allowing access to an astonishing variety of species not often seen in garden centers or nurseries. Develop a deeper appreciation of plant physiology and evolution. Discuss seed physiology and ecology as well as the various techniques used to germinate and grow a wide variety of native species, including such challenging genera as Trillium. Discuss seed and spore collection and storage. Clean and sow a variety of seed to take home and grow. All materials provided. Bring a bag lunch.

Instructor: Kate Pawling, Plant Propagator, New England Wild Flower Society

Fee: \$56 (Member) / \$67 (Nonmember)

Limit: 16 **Credit:** Elective-HD/Adv. HD

Choose one of two sections:

Saturday, December 3, 10 a.m.-2 p.m.

Nasami Farm, Whately, MA

Course Code: HOR3203

Tuesday, December 6, 10 a.m.-2 p.m.

Garden in the Woods, Framingham, MA

Course Code: HOR3201



horticulture & gardening

GIS FOR PUBLIC GARDENS, MANAGED LANDSCAPES, AND MORE: AN INTRODUCTORY WORKSHOP

Interested in taking your garden maps to the next level? This full-day workshop guides participants through the process of creating a Geographic Information System (GIS) for a public garden or similar landscape using Esri ArcGIS and the Alliance for Public Gardens GIS Public Garden Data Model on individual work stations at the computer lab. Learn how to download and install the data model template, how to create and edit map features in ArcGIS, how to collect garden data, and how to create plant collection maps. Participants are provided with crucial concepts and background information about GIS, managing and presenting garden collections data, and additional resources available for creating a GIS for your own garden, park, nature center, zoo, cemetery, museum or other landscape. Bring a lunch or plan to purchase lunch locally.

Tuesday, January 24, 9 a.m.-5 p.m.
(snow date: **Wednesday, January 25, 9 a.m.-5 p.m.**)

Harvard University, Cambridge, MA

Course Code: HOR3800

Instructor: Brian Morgan, Developer, ArcGIS Public Garden Data Model, and Founding Director, Alliance for Public Gardens GIS

Fee: \$160 before December 15; \$185 after December 15

Limit: 24 **Credit:** Elective-all certificates

Cosponsors: Arnold Arboretum of Harvard University, Wellesley Friends of Horticulture, Tower Hill Botanic Garden

GARDENING IN WET SPACES WITH NATIVE PLANTS

Working with native plants that enjoy “wet feet” adds great interest to a pond side or wet area in your garden. While providing wildlife habitat, pond-side and moisture-loving plants also act as a filter for runoff water. Explore the gorgeous native plant palette based on the Lily Pond at Garden in the Woods. Discuss design ideas you can bring back to your own wet environment, utilizing layers of native perennials, shrubs and trees for seasonal interest.

Friday, January 20, 10 a.m.-12:00 noon

Garden in the Woods, Framingham, MA

Course Code: HOR4077

Instructor: Kristin DeSouza, Senior Horticulturist, New England Wild Flower Society

Fee: \$24 (Member) / \$29 (Nonmember)

Limit: 16 **Credit:** Elective-all certificates



horticulture & gardening



SOIL: WHERE GEOSCIENCE MEETS BOTANY

Soil has been called “the bridge between life and the inanimate world.” Gain new appreciation for this backbone of our landscape. From its origins in the glacial era, explore the characteristics of soils in New England and how they affect the plants in our landscape. How is soil made? What are the components of a good soil, and what easy methods can gardeners use to tell what amendments are needed? From geology to biology, get all the dirt on soil.

**Monday, January 23, 2:00 p.m. tea,
2:30-4:00 p.m. program**

Wellesley College, Wellesley, MA

Course Code: LEC1016

Instructor: Janet McDonough, Senior
Instructor of Biological Science Laboratory,
Wellesley College

Fee: \$10 (Member) / \$15 (Nonmember)

Limit: 24

Cosponsor: Wellesley Friends of Horticulture

NATIVE HEROES

Our plant choices now extend beyond considerations of color and form to thoughts of wildlife value and ecology. We seek plants that won't escape into the natural community, give us a pleasing landscape, and at the same time provide valuable nourishment and habitat for birds, mammals and insects. Examine the reasons to go native, and be introduced to a choice collection of beautiful - and well behaved - indigenous plants. This program will inspire your gardening and enhance your appreciation of our native species.

Tuesday, January 24, 7-9 p.m.

Drumlin Farm, Lincoln, MA

Course Code: HOR1804

Instructor: Robin Wilkerson, gardener and
naturalist

Fee: \$18 (Member) / \$24 (Nonmember)

Limit: 16 **Credit:** Elective-all certificates

Cosponsor: MA Audubon Drumlin Farm

horticulture & gardening

RESIDENTIAL LANDSCAPE DESIGN

In this multi-session course appropriate for beginners, learn different aspects of the landscape design process with special emphasis on native plants in the residential landscape. Workshop sessions focus on design methods using site analysis techniques and schematic design tools. Consulting with the instructor, work on a project of your own choosing. Interspersed with design work, lectures focus on plants and habitats, including information on plant choice and placement in the landscape. A list of required materials will be discussed at the first class.

Choose one of three sections:

Fee: \$190 (Member) / \$235 (Nonmember)

Limit: 12

Credit: Core-HD; Elective-all certificates

**Tuesdays, February 7, 14, 21, 28,
March 6, 13, 20, 2012, 5:45-7:45 p.m.**

Cambridge, MA

Course Code: HOR4002

Instructor: Karen Sebastian, principal, Karen Sebastian, LLC, Landscape Architecture

Cosponsor: Cambridge Center for Adult Education

**Tuesdays, February 28, March 6, 13, 20, 27,
April 3, 10, 7:00-9:15 p.m.**

Garden in the Woods, Framingham, MA

Course Code: HOR4000

Instructor: Laura Eisener, principal, Laura D. Eisener Landscape Design

**Fridays, March 2, 9, 16, 23, 30,
9:30 a.m.-12:30 p.m.**

Beverly, MA

Course Code: HOR4022

Instructor: Laura Eisener, principal, Laura D. Eisener Landscape Design

Cosponsor: Trustees of Reservations, Long Hill

DESIGN-LESS GARDENING: A NATURALISTIC APPROACH

Disregard traditional design rules and adopt a new approach to garden design. Look to nature for your inspiration. What clues can you take from your landscape to help you provide the right plant for the right place? Learn to evaluate sunlight, moisture, soil and other factors to encourage a successful garden that does not require many inputs in the way of watering, fertilizing, extra coddling on your part. Create a low maintenance garden that actively supports the environment and provides beauty for all – people and pollinators alike.

Wednesday, February 8, 10 a.m.-12 noon

Garden in the Woods, Framingham, MA

Course Code: HOR4023

Instructor: Dan Jaffe, Stockbed Grower, New England Wild Flower Society

Fee: \$24 (Member) / \$29 (Nonmember)

Limit: 16 **Credit:** Elective-all certificates



horticulture & gardening



HARDWORKING NATIVE PERENNIALS

Winter is the perfect time to plan for adding a punch to our spring, summer and fall gardens. Discover which native plants can be counted on to grow vigorously, bloom generously, and provide a strong backbone to your garden. Learn about their growing conditions, their habit, and ways to provide for striking color and foliage combinations. After the presentation, an informal roundtable discussion will allow for questions and answers and instructor suggestions.

Saturday, February 11, 9:30 a.m.-12:30 p.m.

(Snow date: Sunday, February 12, 9:30 a.m.-12:30 p.m.)

Hitchcock Center, Amherst, MA

Course Code: HOR1509

Instructor: Melinda Reid, landscape designer, former partner, Little and Reid, Innovative Gardens

Fee: \$36 (Member) / \$43 (Nonmember)

Limit: 16 **Credit:** Elective-HD/Adv.HD

BONES OF THE GARDEN: STRENGTHENING THE DESIGN

Every memorable landscape has one thing in common – strong “bones.” The placement of trees and shrubs creates form, directs movement, and organizes the garden space. Learn to select, situate, and integrate these stately elements into the cultivated landscape. Explore the concepts of creating space, the impact of plant growth over time in locating structural elements, and review a selection of native plant varieties that are well-suited for New England sites. Using your new knowledge, develop your own site-specific design. Receive feedback on designs and plant combinations, and, during the final session, inspect the “bones” of Garden in the Woods with a late winter walk.

Monday, February 27, Wednesday, February 29, 6:30-9:00 p.m., Saturday, March 3, 9:30 a.m.-1:30 p.m.

Garden in the Woods, Framingham, MA

Course Code: HOR4223

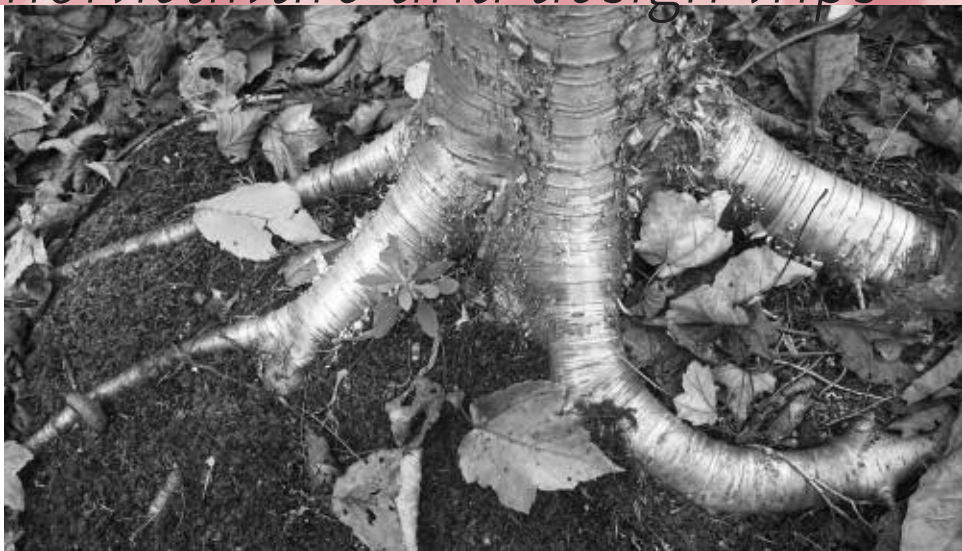
Instructor: Cheryl Salatino, designer and horticulturist

Fee: \$108 (Member) / \$130 (Nonmember)

Limit: 16 **Credit:** Core-Adv.HD; Elective-HD

Cosponsor: The Landscape Institute

horticulture and design trips



LANDSCAPE HISTORY AT STRAWBERRY BANKE

Take a special Curator's tour through New England landscape history as we explore gardens ranging from native landscapes and 17th century raised-bed kitchen gardens to High Victorian gardens, immigrant gardens, a 100 year-old Colonial Revival garden, and a Victory Garden from World War II. The tour focuses on the evolution of a neighborhood and its gardens and landscapes from native presence to the present. Participants have access to heirloom seeds from the gardens as we progress through the historic and cultural landscapes. Tour does not include admission to the museum, but participants are encouraged to stay for lunch and an afternoon visit to the site.

Wednesday, September 21, 10 a.m.-12 noon
Portsmouth, NH

Course Code: HDT4002

Instructor: John Forti, Curator of Historic Landscape, Strawberry Banke Museum

Fee: \$22 (Member) / \$25 (Nonmember)

Limit: 20

Credit: Field-HD/Adv.HD

ORGANIC PRACTICES IN STOW GARDEN

This two-acre garden has evolved over the past twenty years from the builders' ten foundation plants to a diverse landscape with a shade garden, multiple large perennial beds, a meadow, a woodland garden, a vegetable garden and the beginnings of a small orchard. The end of September is a great time to evaluate the garden, move and divide plants, and decide what was successful and what failed. A garden is never finished and the target is always moving. During the visit, learn how sustainable methods are applied to development and maintenance and what steps will be taken now to ready the garden for winter and get a head start for spring.

Saturday, September 24, 10 a.m.-12 noon
Stow, MA

Course Code: HDT1036

Instructor: Denise Pegrum, owner, Cheshire Cat Organic Gardens

Fee: \$22 (Member) / \$25 (Nonmember)

Limit: 16

Credit: Field-HD or Adv. HD

horticulture and design trips

BRINE DESIGN: PRINCIPLES IN PRACTICE

Join an on-site seminar in landscape designer Duncan Brine's widely published six-acre garden, featured in the new book, *Gardens of the Hudson Valley*, and *Horticulture Magazine*. (see gardenlarge.com) Duncan's article "Inviting Nature into Your Garden" appeared in last fall's issue of *The American Gardener*. In its 21st year, the Brine Garden resembles a public garden, with multiple areas, each with its own character. Duncan incorporates select non-natives and many native plants from his on-site nursery to blend with naturalistic areas and adjacent preserved land. Anne Raver of *The New York Times* describes the garden as a "dream-like landscape." Author Ruah Donnelly wrote that the Brine Garden is "a naturalistic display garden of remarkable artistry and diversity." Duncan will discuss his landscape design process and respond to your observations and questions during this roaming seminar.

Saturday, October 1, 1-4 p.m.

Pawling, NY

Course Code: HDT80o8

Leader: Duncan Brine

Fee: \$33 (Member) / \$37 (Nonmember)

Limit: 20 **Credit:** Field-HD or Adv. HD

FALL FRUIT AND FOLIAGE IN ACTON

Mid-October is prime time for fall color and a perfect season to tour a 20-acre co-housing village where wildlife and native plantings are cherished by the residents. The rural site has 60% open space around 24 units, landscaped with wildflower meadows, organic lawns, and varied and beautiful shrubs. See how you can landscape with native viburnums, winterberries, blueberries,



chokeberries, bayberries and more – you can enjoy the vibrant colors, while local and migrant birds appreciate the berries. Learn how to use native canopy and understory trees such as red maple, hawthorn, smoke tree, tulip tree, American mountain ash, and Virginia fringe tree, all of which have lovely fall color and wildlife value. View a number of successful rain gardens which use down-spout water. Enjoy refreshments in the solar-powered common house, while we discuss the practicalities of sustainable landscape design and the basics of cohousing. Of interest to homeowners, landscape designers, land managers, and conservationists.

Saturday, October 22, 1:00-3:30 p.m.

Acton, MA

Course Code: HDT1037

Leader: Dori Smith, M.Ed, owner, Gardens for Life, Acton, MA

Fee: \$27 (Member) / \$31 (Nonmember)

Limit: 16 **Credit:** Field-HD or Adv. HD

botany & conservation

NATIVE NEW ENGLAND SHRUBS

The many species of native New England shrubs display a wide variation in size, shape, color, and in characteristics of their bark, flowers, and fruits. This course introduces students to about 50 species growing in this region. We emphasize identification and become familiar with family characteristics and historic uses. Bring a hand lens to each session. Field sessions held in locations off-site with directions provided during the first class.

Choose one of two sections

Fee: \$215 (Member) / \$258 (Nonmember)

Limit: 16

Credit: Core-FB or HD; Elective-all certificates

Tuesdays, September 6, 13, 20, 6:30-8:45 p.m. and field sessions on Sundays, Sept. 11, 18, 9 a.m.-1 p.m.

Garden in the Woods, Framingham, MA and field sites

Course Code: BOT3301

Instructor: Roland "Boot" Boutwell, naturalist

Friday and Saturday, October 7 and 8, 9:30 a.m.-4:30 p.m.

Yale Peabody Museum, New Haven, CT and field sites

Course Code: BOT3305

Instructor: William Moorhead, consulting field botanist

Cosponsor: Yale Peabody Museum

FERNS OF THE CONNECTICUT VALLEY

Do all ferns start to look the same when you study them? Here's your chance to finally learn to distinguish and appreciate them in all their diversity. Receive an overview of fern species in the Valley, review fern life-histories, and pick up some easy field identifi-

cation tips. During the weekend sessions, visit a variety of habitats, from moist forests to acid swamps to basalt cliffs in Hampshire and Franklin counties and expect to see upwards of 35 species. Recommended text: *Ferns of Northeastern and Central North America*, Peterson Field Guide series, second edition, 2005. Bring a hand lens to each session and for field sessions, bring a lunch and dress for the weather.

Thursday, September 8, 7-9 p.m.; Saturday, September 10, and Sunday, September 18, 10 a.m.-2 p.m.

Hitchcock Center, Amherst MA and field sites for weekend sessions

Course Code: BOT3430

Instructors: Ted Watt, naturalist, Hitchcock Center and Malcolm Meltzer, fern enthusiast

Fee: \$95 (Member) / \$114 (Nonmember)

Limit: 16

Credit: Elective or Field-all certificates

Cosponsor: Hitchcock Center, Amherst, MA



botany & conservation

BARK BASICS: KNOW YOUR TREES

The traits most often used to describe tree species—leaves, buds, and twigs—are often not clearly visible or, in the case of leaves, absent more than half the year. Join Michael Wojtech for an exploration of bark, the tree characteristic that is always visible in every season. Learn how bark can be classified into ten different types, and how differences within each bark type can be used to identify trees. Discover why such a variety of bark characteristics exist – smooth, thick and broken, peeling. After an indoor presentation, head outdoors to practice identifying trees. Open to naturalists at all levels of experience. Michael will be available to sign copies of his book, *Bark: A Field Guide to Trees of the Northeast* described at www.knowyourtrees.com

Instructor: Michael Wojtech, author, and naturalist

Fee: \$48 (Member) / \$58 (Nonmember)

Limit: 16

Credit: Elective-all certificates

Choose one of three sections

Saturday, September 17, 10 a.m.-2 p.m.

Yale Peabody Museum, New Haven, CT

Course Code: BOT3213

Cosponsor: Yale Peabody Museum

Saturday, October 1, 10 a.m.-2 p.m.

Garden in the Woods, Framingham, MA

Course Code: BOT3212

Sunday, November 13, 12-4 p.m.

Montshire Museum, Norwich, VT

Course Code: BOT3214

Cosponsor: Montshire Museum



WILDFLOWERS IN FALL

As a follow-up to our spring course, “Wildflowers of New England,” this class highlights flora in the last stages of the growing season. What fruits have been produced by spring wildflowers and how are they dispersed? What flowers are blooming in the fall and why? Which pollinators are active? The program includes a walk in the Garden, a power-point presentation to illustrate the key points, and samples for dissection and close observation. References for fruits and winter ID provided. Bring *Newcomb's Wildflower Guide* and a 10x hand lens.

Tuesday, September 20, 10 a.m.-1 p.m.

Garden in the Woods, Framingham, MA

Course Code: BOT3009

Instructor: Dr. Neela de Zoysa, author and botanist

Fee: \$36 (Member) / \$43 (Nonmember)

Limit: 16 **Credit:** Elective-all certificates

botany & conservation

INTRODUCTION TO BOTANY

Among the topics to be explored in this course are: plant cells and tissues, anatomy and morphology, reproduction, nutrition, growth and development, plant diversity, evolution, classification, and nomenclature. This course, offering both lectures and laboratory time, introduces botany to new students or serves as a refresher course. Required text: *Botany for Gardeners* by Brian Capon.

Tuesdays, September 20, 27, October 4, 11, 18, 25, November 1, 8, 15, 29, 6:30-8:30 p.m.

Harvard University Herbaria, Cambridge, MA

Course Code: BOT1010

Instructor: Dr. Kanchi Gandhi, botanist, Harvard University

Fee: \$280 (Member) / \$372 (Nonmember)

Limit: 16

Credit: Core-FB or HD; Elective-all certificates

Cosponsor: Arnold Arboretum of Harvard University



CERTIFICATE PROGRAM ORIENTATION

Join Bonnie Drexler, Education Director, and certificate program graduates for an illustrated talk that includes some of the fascinating stories that native plants have to tell, along with a look at the Society's efforts to conserve the region's native flora. Hear about the structure of the Society's Certificate in Native Plant Studies program and how it can guide your learning. Everyone is welcome at this free presentation. Preregistration is requested, but not required.

Wednesday, September 21, 7-8:30 p.m.

Garden in the Woods, Framingham, MA

Course Code: CER8000

Instructor: Bonnie Drexler, Education Director, New England Wild Flower Society

Fee: Free program

Limit: 20

PLANT FORM AND FUNCTION

This course, formerly known as "Basic Botany," provides an introduction to general plant anatomy and physiology. Students are introduced to the plant kingdom through slides and live materials. Microscopic study allows for detailed observation of roots, stems and leaves, and their component tissues. Examination of flowers, fruits, and seeds reveals the details of pollination, fertilization, dispersal and germination, emphasizing the relationship between plant form and function.

Thursdays, September 22, 29, October 6, 13, 20, 27, 6:30-9:00 p.m.

Bentley University, Waltham, MA

Course Code: BOT1000

Instructor: Dr. Nancy Eyster-Smith, botanist, Bentley University

Fee: \$210 (Member) / \$252 (Nonmember)

Limit: 16

Credit: Core-FB or HD; Elective-all certificates

botany & conservation

INVASIVES: ID, ECOLOGY, AND CONTROL

This course provides an introduction to about 40 of the most common invasive non-native plants in our local landscapes. Through lecture, discussion, power-point presentation, herbarium specimens, and a walk outside, become familiar with identification clues as well as the habits of a number of these plants that are so disruptive of natural ecosystems. Discuss management techniques for many of these species on both a home and a landscape scale. *The Invaders* issue of the Society's magazine as well as the *MA Field Guide to Invasives* will be available for purchase at a discount. Bring a bag lunch and a hand lens if you have one.

Friday, September 30, 10 a.m.-2 pm.

Garden in the Woods, Framingham, MA

Course Code: BOT5107

Instructor: Ted Elliman, Vegetation Management Coordinator, New England Wild Flower Society

Fee: \$48 (Member) / \$58 (Nonmember)

Limit: 21

Credit: Elective-all certificates

Cosponsor: MA Audubon Drumlin Farm, Arnold Arboretum of Harvard University

FRAMEWORK TREES OF NEW ENGLAND

Trees are the dominant plant type of New England with forests covering most of the land area. This survey course addresses identification and natural history of individual species as well as forest ecology. Since understanding today's forests requires familiarity with their history, we review the changing landscape from the Ice Age through European settlement. Students learn to identify native New England trees and their habitats, to recognize different aged stands (pioneer,



second growth, and other growth) and become familiar with forest communities of the northeastern temperate region. Consider the natural conditions and human disturbance factors that produce different forest associations. Weekend field trips take us to a variety of forest types off-site. Bring a bag lunch and water for the field trips.

Tuesdays, October 4, 11, 18, 25, 6:30-8:30 p.m., Saturdays, October 15, 12-4 p.m., October 22, 9 a.m.-1 p.m.

Garden in the Woods, Framingham, MA

Course Code: BOT3200

Instructor: Karen Sebastian, principal, Karen Sebastian, LLC, Landscape Architecture

Fee: \$209 (Member) / \$250 (Nonmember)

Limit: 16

Credit: Core-FB; Elective-all certificates

botany & conservation

INVASIVE PLANT ISSUES

Invasive plant species get a lot of bad lip service from botany, ecology, horticulture, and conservation professionals alike. Find out why in this two-day course, introducing the basic ecological problems surrounding these aggressive and tenacious plants. Delve into the complicated (and sometimes political) issues surrounding invasive plant species, including the process by which a plant becomes labeled “invasive.” Become familiar with some of New England’s most common invasive species through images, specimens and short, local field visits. Benefit from Elliman’s extensive experience working to control invasive species in natural areas for land trusts, conservation organizations, and state agencies across the New England landscape. Bring lunch, a hand lens, water, and warm, sturdy clothes to go afield for short forays.

**Friday & Saturday, October 14 & 15,
11 a.m.-4 p.m.**

Coastal Maine Botanical Gardens, Boothbay, ME and field locations

Course Code: BOT5125

Instructor: Ted Elliman, Vegetation Management Coordinator, New England Wild Flower Society

Fee: \$100 (Member) / \$120 (Nonmember)

Limit: 18

Credit: Core-Adv. FB; elective all certificates

Cosponsor: Coastal Maine Botanical Gardens

WILD FRUITS

Spring and summer flowers produce a bounty of wild, fall fruits for us to enjoy in this hands-on workshop on fruit form, function, and diversity. Study the significance of fruits in the flowering plant life cycle and then examine and dissect diverse fruit types, from capsules and follicles to pomes and

drupes. Learn fruit terminology and practice constructing and using dichotomous keys to sort out the remarkable variety of fruits produced by flowering plants. Look at dispersal mechanisms, relating fruit and seed forms with strategies for seed dispersal. Participants are encouraged to bring fruit specimens from their own gardens for dissection and identification. Bring a bag lunch.

Sunday, October 16, 10 a.m.-4 p.m.

Garden in the Woods, Framingham, MA

Course Code: BOT1023

Instructor: Dr. Judith Sumner, botanist, author, and educator

Fee: \$72 (Member) / \$87 (Nonmember)

Limit: 16 **Credit:** Elective-all certificates

DISCOVERING LEAVES

Leaves are the amazing power plants of the plant world. Beyond their photosynthetic functions, leaves are remarkably varied in their shapes, sizes, surfaces, and details, and both fascinating and beautiful to observe and study. Learn more about leaves, see how gaining familiarity with leaf characteristics can assist your understanding of plants, and get tips on identifying broadleaved and coniferous trees. Bring your lunch and your favorite tree field guide if you have one. We’ll be using *Master Tree Finder* by May Theilgaard Watts and will have copies to share if you don’t have your own.

Wednesday, October 19, 10 a.m.-2 p.m.

Garden in the Woods, Framingham, MA

Course Code: BOT1028

Instructor: Carol Govan, botanist and artist

Fee: \$48 (Member) / \$58 (Nonmember)

Limit: 16 **Credit:** Elective—all certificates

Cosponsor: MA Audubon Drumlin Farm

botany & conservation

WILD FOOD: FORAGING FOR EDIBLE PLANTS AND MUSHROOMS

Join professional environmentalist and wild foods enthusiast Russ Cohen, author of *Wild Plants I Have Known...and Eaten*, for a lecture on foraging for wild plants, followed by a walk in the Wellesley College Botanic Gardens to see what might be available this season. We may encounter a couple dozen different species of edible wild plants and, pending favorable weather conditions, mushrooms. Keys to the identification of each species are provided, as well as information about its edible portion(s), season(s) of availability, flavor and nutritive value, and some tips on preparation. Russ also discusses guidelines for safe and environmentally responsible foraging.

Monday, October 24, 2:00 p.m. tea, 2:30-4:30 p.m. program

Wellesley College, Wellesley, MA

Course Code: LEC1017

Instructor: Russ Cohen, naturalist, author

Fee: \$10 (Member) / \$15 (Nonmember)

Limit: 24

Cosponsor: Wellesley Friends of Horticulture

BOOKLOVERS' BOTANY: A CHILDREN'S GARDEN

In generations past, children spent their days wandering the out-of-doors and enjoyed learning botany along the way. Join two book aficionados who would love to share their favorite children's books from the Society's impressive collection in the Lawrence Newcomb Library. See rare books illustrating wildflowers, ferns, and woody plants—wonderful children's books any adult would love, including Mrs. William Starr Dana's

Plants and their Children, E.M. Hardinge's *With the Wild Flowers from Pussy Willow to Thistledown* (subtitled a *Rural Chronicle of our Flower Friends and Foes*), and an original plant journal kept by a young girl early in the last century. Conclude with tea and scones in the library.

Wednesday, November 2, 1-3 p.m.

Garden in the Woods, Framingham, MA

Course Code: BOT1203

Instructors: Carol Govan, Robin Wilkerson, naturalists and bibliophiles

Fee: \$28 (Member) / \$33 (Nonmember)

Limit: 12 **Credit:** Elective-all certificates

SHRUBS IN WINTER

The leaves are nearly gone from most shrubs, but you can still learn to recognize them. In this class, we focus on a number of macro-characteristics such as branching patterns, growth habits, bark, persistent fruit, galls, and habitats to help us identify more than 20 native New England shrubs in late fall and winter. We also discuss the natural history of the shrubs we see. The program begins with a classroom session and then moves into the field. Look for such species as witch-hazel (*Hamamelis virginiana*), highbush blueberry (*Vaccinium corymbosum*), and, of course, winterberry (*Ilex verticillata*) and wintergreen (*Gaultheria procumbens*). Bring a bag lunch and a hand lens.

Sunday, December 4, 10 a.m.-2:30 p.m.

Garden in the Woods, Framingham, MA

Course Code: BOT3312

Instructor: Roland "Boot" Boutwell, naturalist

Fee: \$48 (Member) / \$58 (Nonmember)

Limit: 16 **Credit:** Elective-all certificates

botany & conservation

WINTER BOTANY

This course includes a classroom lecture on the taxonomic characteristics of trees, shrubs, and herbaceous and evergreen plants in winter, including hands-on identification of twig and plant specimens, followed by a walk around the site to put your classroom knowledge to work. Learn the significance of macro and micro characteristics including growth habit, bud morphology, phyllotaxy, leaf and bundle scars, floral patterns and fruits. Acquire experience with an extensive array of classroom specimens and field identification of woody plants. Gain confidence using a key to identify unknown specimens, whether you are a beginning or experienced botanist. The program provides lecture notes and twig samples to take home. Bring a hand lens and bag lunch and dress for the weather. Required text: *Fruit Key & Twig Key to Trees & Shrubs*, by William M. Harlow, Ph.D., Dover Publications, Inc. Copies will be available for purchase at first class.

Instructor: Dr. William Kuriger, botanist
Fee: \$82 (Member) / \$98 (Nonmember)
Limit: 16
Credit: Elective-all certificates

Choose one of two sections

Saturday, January 21, 9 a.m.-3:30 p.m.
Garden in the Woods, Framingham, MA
Course Code: BOT3317

Saturday, February 11, 9:30 a.m.-4:00 p.m.
Nasami Farm, Whately, MA
Course Code: BOT3316

PLANT SYSTEMATICS MODULE 3

This third of five Plant Systematics modules will examine tracheophyte families referred to as the tricolpates (i.e., the majority of dicot

plants). Discussion will include primitive tricolpates (e.g., *Ranunculaceae*, *Papaveraceae*, *Amaranthaceae*) and eurosids (e.g., *Rosaceae*, *Betulaceae*, *Brassicaceae*). The lecture will use text and images that describe both critical characters for family level identification and representative genera in New England.

Sunday, January 29, 1-4 p.m.
Garden in the Woods, Framingham, MA
Course Code: BOT2236
Instructor: Arthur Haines, Research Botanist, New England Wild Flower Society, author of *Flora Novae Angliae*
Fee: \$49 (Member) / \$58 (Nonmember)
Limit: 18
Credit: Core-Adv.FB; Elective-all certificates



botany & conservation



WOMEN IN BOTANY

Women have been expert practical botanists since pre-history, as gardeners, cooks, herbalists, and midwives. Women have also become recognized professional botanists who have contributed significantly to plant science. Botanical work by curious, active women expanded during the 19th and 20th centuries with exploration, research, and publication. Beginning with colonial America and the work of Jane Colden, we explore the role of women in botanical studies and documentation. Recognize the role of women in protecting biodiversity (including the origins of New England Wild Flower Society) and the work of Beatrix Farrand and others in ecology and landscape design. Join us for a day celebrating women's many roles in practical and scientific botany. In addition to lecture, slides, and discussion, peruse primary source materials from the Society's library and participate in hands-on activities that commemorate the diverse roles of women in botany.

Sunday, February 26, 10 a.m.-4 p.m.

Garden in the Woods, Framingham, MA

Course Code: BOT1204

Instructor: Dr. Judith Sumner, botanist, author, educator

Fee: \$72 (Member) / \$87 (Nonmember)

Limit: 20 **Credit:** Elective-all certificates

PLANT SYSTEMATICS MODULE 4

This fourth of five Plant Systematics modules examines advanced tricolpate families often referred to as *Euasterids* (e.g., *Lamiaceae*, *Plantaginaceae*, *Campanulaceae*, *Asteraceae*). The lecture uses text and images to describe critical characters for family level identification and representative genera in New England. The course focuses on modern taxonomy and family arrangements, as set forth in Judd et al. *Plant Systematics: A Phylogenetic Approach* and later publications.

Sunday, March 4, 1-4 p.m.

Garden in the Woods, Framingham, MA

Course Code: BOT2240

Instructor: Arthur Haines, Research Botanist, New England Wild Flower Society, author of *Flora Novae Angliae*

Fee: \$49 (Member) / \$58 (Nonmember)

Limit: 18 participants

Credit: Core-Adv.FB; Elective—all certificates

field trips

FOREST ECOLOGY AT THOMPSON FARM

Explore University of New Hampshire's 204-acre Thompson Farm to learn how physical factors (soil texture, nutrients, water drainage, and topography) affect forest composition and practice your tree ID skills along the way. Visit three main forest communities: an upland site with shagbark hickory, pignut hickory and eastern red cedar among others; a site with more nutrient-rich soils containing sugar maple, American basswood and white ash; and a lowland site with seasonally-flooded marine-sediment soils supporting red maple and a particularly impressive swamp oak. With the use of a soil auger, get the feel for different soil textures and soil parent elements. Other highlights include an abandoned beaver pond as well as a recently burned meadow. Prepare to walk off-trail and over uneven terrain at times. Bring sturdy hiking boots as well as a lunch. Participants should have strong legs, strong lungs and a good sense of balance.

Saturday, September 24, 10 a.m.-2 p.m.

Thompson Farm, Durham, NH

Course Code: FDT4037

Leader: Gabriel Roxby, UNH Forestry graduate student

Fee: \$36 (Member) / \$44 (Nonmember)

Limit: 15 **Credit:** Field-all certificates

MOUNT RACE

Mount Race in southern Berkshire County is a long, open ridgeline with spectacular views to Mt. Everett, Greylock, and other Berkshire Peaks. The ridgetop community consists of pitch pine, oaks, many heaths, and unusual flora such as three-toothed cinquefoil (*Potentilla tridentata*), pale corydalis (*Corydalis sempervirens*), and sandbar cherry (*Prunus pumila*). The hike to the ridge along Race

Brook and the scenic Race Brook Falls passes through a mature forest of mixed hardwoods and hemlock. We will look for late-blooming composites, including a rare species that occurs on the ridge. Mount Race is an excellent location for viewing fall bird migrations, and binoculars are highly recommended. Round trip is approximately six miles, and the hike is strenuous and steep in places. Participants should have strong legs, strong lungs, and a good sense of balance. Bring a bag lunch and water.

Saturday, September 24, 10:30 a.m.-3:30 p.m.

Sheffield and Mt. Washington, MA

Course Code: FDT2038

Leader: Ted Elliman, Vegetation Management Coordinator, New England Wild Flower Society

Fee: \$45 (Member) / \$55 (Nonmember)

Limit: 14 **Credit:** Field-all certificates

Cosponsor: Hitchcock Center, Amherst, MA



field trips

FUNGI IN THE FALL

Can you distinguish a bolete from a gilled mushroom? And what technically is a mushroom anyway? Fall is fungi season in the Northeast, the best time to discover and identify what's out in the field. Learn about the crucial and sometimes astonishing roles these fascinating life forms have in the ecosystem and some methods for identifying mushrooms and other fungi all around us.

Sunday, September 25, 1:00-3:30 p.m.

MA Audubon Drumlin Farm, Lincoln, MA

Course Code: FDT1079

Leader: Jef Taylor, naturalist

Fee: \$20 (Member) / \$24 (Nonmember)

Limit: 16 **Credit:** Field-all certificates

Cosponsor: MA Audubon Drumlin Farm

WILD EDIBLES AT DEER JUMP RESERVATION

Join Russ Cohen for a walk through Deer Jump Reservation in Andover, a property of the Andover Village Improvement Society (AVIS), and learn to identify wild edible plants and how to use them. Although a few species should not be harvested due to scarcity or other reasons, this walk emphasizes invasive-alien and common-native species that can be collected ethically. Pending favorable weather conditions, several edible wild mushroom species may be also encountered. Information provided on identification tips, edible portion(s), seasons of availability, preparation methods, and guidelines for safe and environmentally responsible foraging. Although no collecting is allowed on this property, all of the species discussed on the walk can be found in similar habitats elsewhere in Essex County.



Tuesday, October 4, 3-6 p.m.

Andover, MA

Course Code: FDT1109

Leader: Russ Cohen, forager and author of *Wild Plants I Have Known...and Eaten*

Fee: \$20 (Member) / \$24 (Nonmember)

Limit: 20 **Credit:** Elective-all certificates

Cosponsor: MA Audubon Ipswich River Wildlife Sanctuary

field trips



while feeling the “fur” of the hairy sumac. Gain a unique nighttime appreciation of the plants and terrain on this night of the “Hunter’s Moon.”

Wednesday, October 12, 7:00-8:30 p.m.

Garden in the Woods, Framingham, MA

Course Code: FDT1108

Leader: Dan Jaffe, Stockbed Grower, New England Wild Flower Society

Fee: \$20 (Member) / \$24 (Nonmember)

Limit: 15 **Credit:** Field-all certificates

AN AUTUMN WALK THROUGH FOREST AND BOG

Grassy Pond Conservation Land is a 96-acre sanctuary that includes Grassy Pond, associated wetlands, a small meadow, two small streams and a forest of oak, hickory, white pine and hemlock. Grassy Pond is a kettle pond formed during the retreat of the glaciers. It exhibits bog characteristics (very wet/highly acidic) around the perimeter, with leatherleaf, highbush blueberry, red maple and tamarack moving in and shrinking the pond. There are two boardwalks to keep us high and dry, one going out into the pond and a second one running through the pond-shore bog. The surrounding forest is filled with witch hazel and should be at or near full bloom by mid-October. Bring lunch, a favorite field guide and a hand lens if you have one.

Saturday, October 15, 10 a.m.-2 p.m.

Grassy Pond Conservation Land, Acton, MA

Course Code: FDT 1100

Leader: Roland “Boot” Boutwell, naturalist

Fee: \$36 (Member) / \$44 (Nonmember)

Limit: 12 **Credit:** Field-all certificates

FALL FULL MOON HIKE

Gain a new perspective on our beloved Garden in the Woods with a moonlit walk with Dan Jaffe, the Garden’s sole human full-time resident. Focus your senses on the diversity of smells, tastes, textures and sounds to be found along the pathways into the woods, around the pond, along the brook and back again. Experience the “muscle” of the muscled tree, snack on a wintergreen snack

field trips

WOODLAND LICHENS

Learn to recognize the lichen diversity in local woodlands as we walk across the wonderful boardwalk installed by the Lincoln Conservation Commission and the Weston Forest and Trail Association. It provides access to a range of habitats, crosses wooded wetlands, and leads to trails in a mixed hardwood stand. By looking at the lichen species growing on deciduous and pine trees, downed logs, boulders, and soil, we can explore the microhabitat requirements of the different lichens. Keys will be available for the identification of the more common macrolichens. Bring a 10x hand lens. Appropriate for beginners and intermediate lichen lovers alike.

Saturday, October 22, 9 a.m.–12:30 p.m.

Weston/Lincoln, MA

Course Code: FDT1110

Instructor: Elizabeth Kneiper, lichenologist

Fee: \$31 (Member) / \$38 (Nonmember)

Limit: 16 **Credit:** Field-all certificates

Cosponsor: MA Audubon Drumlin Farm

NAKED SHRUBS

No leaves? No problem! Use a combination of branching patterns, bud and bark characteristics, habitat, persistent fruits, galls and marcescent leaves to identify shrubs in winter. The program begins with a short session indoors. Then head out onto MA Audubon Habitat's 90 acres for a close look at 15–20 native New England shrubs plus a couple of non-native invasives. Return indoors for a twig or slide quiz and a cup of something hot. A wonderful introduction to shrub ID in winter as well as a good review for those who have taken "Native New England Shrubs." Bring lunch and a hand lens if you have one. Be sure to dress for the weather. "There is no bad weather, only improper clothing!"

Saturday, January 28, 10 a.m.-2 p.m.

Belmont, MA

Course Code: FDT1101

Leader: Roland "Boot" Boutwell, naturalist

Fee: \$32 (Member) / \$38 (Nonmember)

Limit: 16

Cosponsor: MA Audubon, Habitat



wetlands

INTERMEDIATE WETLAND DELINEATION

This hands-on workshop uses lectures and fieldwork to teach current regulatory standards and allows students to experience wetland delineation in the field. The morning lecture reviews field indicators for vegetation, soils, and hydrology, atypical situations, problem area wetlands and manual requirements by State and Army Corps methods. The afternoon fieldwork occurs at a nearby wetland system featuring challenging soil and hydrological characteristics. Routine delineations take place along a number of transects. Following field work, we review completed data sheets, transect characteristics, and hold a question and discussion session. Bring a field notebook, bag lunch, and clothes for fieldwork.

Saturday, September 24, 9 a.m.-4 p.m.

Garden in the Woods, Framingham, MA

Course Code: WET2012

Instructor: Dr. William Kuriger, botanist

Fee: \$107 (Member) / \$128 (Nonmember)

Limit: 15 **Credit:** Elective-FB; Core-Adv. FB

WETLAND SPECIES IDENTIFICATION IN WINTER

This program builds knowledge and skills for recognizing wetland trees and shrubs in winter. The morning session is spent indoors learning key identification features. After lunch, we go out in the field to see these plants in their habitats and determine wetland boundaries. Some familiarity with common wetland plants and taxonomy is helpful. Dress warmly and prepare for cold, wet field conditions. Bring a hand lens and a bag lunch.

Saturday, December 3, 9 a.m.-3 p.m.

Garden in the Woods, Framingham, MA

Course Code: WET1002

Instructor: Dennis Magee, author,
environmental consultant

Fee: \$76 (Member) / \$91 (Nonmember)

Limit: 18

Credit: Elective-all certificates



children & families

ALL PROGRAMS AT GARDEN IN THE WOODS, FRAMINGHAM, MA



GRANDPARENTS DAY

Enjoy a fun afternoon with your grandchildren focusing on insects and plants. Explore the Garden with a special scavenger hunt, try some pollinator games, learn the “bee” dance, talk to costumed creatures in the Garden, and make a “buggy” craft to take home.

Sunday, September 25, 12-4 p.m.

Garden in the Woods, Framingham, MA

Free with admission

TURTLE TREK

Can you identify painted turtles, box turtles, and snapping turtles? How can you tell girl turtles from boy turtles? What do they eat and how do they survive when enemies attack? What does the inside of a turtle shell look like? Walk the trails and hunt for turtles in their different habitats. Following the walk, snack on some favorite turtle food. (No-not bugs!) Finally, create a “turtle” craft to take home.

Wednesday, October 5, 3:30-5:30 p.m.

Children in Grades K-2

Course Code: CHP3800

Instructors: Bonnie Drexler and Lana Reed, education staff

Fee: \$13 (Member) / \$16 (Nonmember)

Limit: 12

FULL MOON NIGHT HIKE

On the night of the “Beaver Moon” venture out into the dark forest to enjoy nighttime’s sights, smells, and sounds. Who is still awake? What stars or planets can we spot? What tricks can we use to find our way? After our walk, enjoy hot cocoa and make a booklet of full-moon activities for months of full moons to come.

Thursday, November 10, 6:30-8:30 p.m.

Children with Adult Companion

Course Code: FAM6500

Instructor: Tracy Phipps, naturalist

Fee: \$9 (Member) / \$11 (Nonmember) per person, for each adult and each child

Limit: 24

children & families

WELCOMING THE WINTER SOLSTICE

The Winter Solstice marks the time of the year when the midday sun is at its lowest point in the sky. The Solstices mark key turning points in the year and have been celebrated by many cultures throughout history. The Winter Solstice marks the shortest day (and longest night) of the year, as well as the first day of winter. This year, the solstice occurs on Thursday, December 22 at 12:30 am. We will prepare for the solstice and celebrate the season with solstice history and lore, poetry, a solstice story and a walk outdoors to enjoy the setting sun and the beauty of nature. The program will end indoors with a short ceremony to welcome the solstice season followed by warm cider and cookies.

Tuesday, December 20, 3:30-5:30 p.m.

Children with Adult Companion or Adults alone

Course Code: FAM1802

Leader: Roland "Boot" Boutwell, naturalist

Fee: \$9 (Member) / \$11 (Nonmember)

Limit: 24



WINTER WONDERS WALK

Come to Garden in the Woods to see a puppet show about winter survival. Make a "track-finder." Walk through the wintry woods. Enjoy hot drinks and a winter craft activity. Hike down into the snowy woods, over an icy brook, and beside a meadow looking for signs of winter residents and their activities. Learn how foxes, rabbits, squirrels, turtles, frogs, trees, and wildflowers survive the long, snowy months.

Sunday, February 5, 1:30-3:30 p.m.

Children with Adult Companion

Course Code: FAM1800

Instructor: Tracy Phipps, naturalist

Fee: \$9 (Member) / \$11 (Nonmember) per person, for each adult and for each child

Limit: 24

WINTER DETECTIVES

As we explore the wintry woods, what clues can we find about the animals and plants around us? Whose teeth chewed that branch, whose tracks lead up to that tree stump, and which buds have a furry winter coat? Use all your senses to investigate life above, in, and under the snow. Inside the classroom after warm snacks, conduct experiments with snow and ice to learn more clues about winter survival.

Wednesday, February 22, 1:30-3:30 p.m.

Children in Grades K-2

Course Code: CHP1810

Instructor: Bonnie Drexler, Education Director

Fee: \$13 (Member) / \$16 (Nonmember)

Limit: 12

children & families



ANIMAL TRACKING

Come to the Garden to learn some winter tracking skills as we explore the winter woods. Can you tell the difference between a rabbit and a squirrel tracks? How do coyote tracks differ from fox tracks? Learn to identify other clues that animals leave behind as they hunt for food or escape their predators. Make a “track finder” to use and take home. Enjoy cocoa and treats after our exploration.

Friday, February 24, 1:30-3:30 p.m.

Children in Grades 2-5

Course Code: CHP4500

Instructor: Bonnie Drexler, Education Director

Fee: \$13 (Member) / \$16 (Nonmember)

Limit: 12

SALAMANDER CELEBRATION

Join our annual celebration of this shy and beautiful woodland creature. Come learn about several special kinds of salamanders who live at Garden in the Woods. Some may even live in your own backyard. Enjoy a puppet show and a short slide program, and then walk to a vernal pool to seek out some salamanders and their eggs. Make a salamander craft and a life-cycle flip-book to take home.

Sunday, March 25, 1:30-3:30 p.m.

Children with Adult Companion

Course Code: FAM3600

Instructor: Bonnie Drexler, Education Director

Fee: \$9 (Member) / \$11 (Nonmember) per person, for each adult and for each child

Limit: 24

registration

REGISTER BY MAIL

Send completed registration form with your payment to: Registrar, New England Wild Flower Society, 180 Hemenway Road, Framingham, MA 01701. Use a separate copy of the form for each applicant. Please do not mail cash.

REGISTER BY TELEPHONE OR FAX

Credit card registrations (MasterCard or Visa) can be made by calling the Registrar at 508-877-7630, ext. 3303, or by faxing to 508-877-3658.

Registration Form

Name of person filling out form:

Participant's name (if different): Age (if under 18):

Address:

City, State, ZIP:

Email:

Phone: Day Evening

Course code	Course name	Start date	Fee
.....
.....
.....
.....

I want to join the Society. Please indicate membership level fee here (see inside back cover).

I would like to enroll in the Certificate Program (see page 2). \$30 (This is a one-time fee.)

PAYMENT

Total: \$

Check enclosed (payable to New England Wild Flower Society)

Credit card #

Visa MasterCard Exp. date

Name on card

Billing address (if different from above)

Signature

MEMBERSHIP STATUS & POLICY STATEMENT

I am a current member of New England Wild Flower Society:

Yes, membership # No

I am a current a member of (Cosponsor organization)

I have read and accept the Cancellation & Refund Policy (inside back cover). Yes No

registration information

For registration form, see page 28.

Advance registration is required for all fee-based courses and is accepted on a first-come, first-served basis upon full payment. Upon registration, you will receive a confirmation letter, including course locations and any recommended reading and supplies. Early registration is encouraged; programs with insufficient registration may be cancelled three to five business days before the scheduled start date. If your requested course is filled, you will be put on a waiting list and your credit card will not be charged or your check will be returned. When space becomes available, you will be contacted according to your position on the waiting list. **Sorry, we cannot accept walk-in registrations.**

CANCELLATION & REFUND POLICY

SOCIETY CANCELLATIONS, CHANGES & INCLEMENT WEATHER: The Society reserves the right to cancel courses, change times or locations, and substitute instructors. If a class is cancelled by the Society, you will receive a full refund. In the event of any course change, you will be notified as soon as possible. Courses and field trips run rain or shine. However, in

the event of extremely inclement weather, please call the Registrar, 508-877-7630, ext. 3303, to see if your course has been rescheduled. The Registrar or instructor will make every effort to inform you by telephone or email of any change. Please include day and evening phone numbers and your current email address on the registration form.

YOUR CANCELLATION & REFUND: To cancel and receive a refund, you must withdraw at least one week before a course's start date. No refunds or transfers can be given for withdrawals within a week of the course start date, from courses already in progress, or for class sessions you have not attended. Ten percent of the registration fee (minimum of \$5) will be deducted from all refunds, excluding classes cancelled by the Society, except where otherwise noted. No cancellation fee will be assessed if the course fee is less than \$10.

EQUAL ACCESS

If you need assistance or special accommodations, please inform the Registrar, 508-877-7630, ext. 3303, at the time you register, or as soon as possible, in order to allow us to make the best efforts to meet your needs.

membership information

Join us... and strengthen our mission

The ultimate membership benefit is the satisfaction of knowing you are making a difference in the health of our environment and New England's natural habitats.

Additional benefits include:

- Unlimited free admission to Garden in the Woods, the region's premier native wildflower botanic garden (Does not apply to Associate Membership)
- 10% discount on purchases from our native plant sales area at Garden in the Woods and Nasami Farm
- 10% discount on most book and gift items
- Up to 20% discount on hundreds of courses, workshops, symposia, and field trips. **Join when you register for immediate discounts on courses.** (See course registration form on page 28.)

- Subscriptions to the Society's publications
- Borrowing privileges at our 4,000-volume botanical library
- Discounts at select New England and mail-order nurseries

Membership levels

- Individual \$50
- Dual \$60
- Family/Friends \$70

For more information on membership benefits, Corporate Membership, and discounted Associate and Student memberships, please contact Karen Pierce, Development and Membership Director, at 508-877-7630, ext. 3801, kpierce@newenglandwild.org.



Join John Burns for a Society-sponsored trip to Ecuador

February 22-March 1, 2012

Optional Galapagos Extension
March 1-6, 2012

Highlights include visits to tropical forests at Maquipucana Reserve, one of the biodiversity hot spots in South America, Papallacata Pass, edged by the unique habitat of the paramo with birds that range from giant hummingbirds to the Andean condor, the Upper Amazon rainforest, and the Loma Pahuambo Orchid Reserve.

Details at
www.newenglandwild.org/learn/travel



NEW ENGLAND WILD FLOWER SOCIETY
HEADQUARTERS & GARDEN IN THE WOODS
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Framingham, Massachusetts 01701-2699

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